

## UNCLASSIFIED

PE NUMBER: 0207443F

PE TITLE: FAMILY OF INTEROP OPERATIONAL PIC (FIOP)

Exhibit R-2, RDT&E Budget Item Justification									DATE February 2007	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0207443F FAMILY OF INTEROP OPERATIONAL PIC (FIOP)					
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	35.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5187 Single Integrated Air Picture (SIAP)	35.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In FY06, Project 5137, Family of Interoperable Operational Pictures (FIOP) was terminated by an OSD budget decision. OSD directed the Under Secretary of Defense (AT&L) with the Chairman of the Joint Chiefs of Staff to leverage the Single Integrated Air Picture (SIAP) systems engineering process and the Joint Capabilities Integration and Development System (JCIDS) process to determine and implement the Common Operational Picture (COP) standard to inform the next development milestone for the Joint Command and Control program of record. Project 5187, Single Integrated Air Picture (SIAP) FY07 funding was transferred to PE 0207451F.										
(U) <b><u>A. Mission Description and Budget Item Justification</u></b>										
The Family of Interoperable Operational Pictures (FIOP) is a program designed to implement web-based technologies into Systems of Record, making their data, and thus the Common Operational and Tactical Pictures, consistent throughout the Services and at all echelons of Combat Operations. The Joint Requirements Oversight Council (JROC) directed the FIOP program to "...provide an all-source picture of the Battlespace containing actionable, decision quality information through the fusion of existing databases" in JROC Memorandum 156-02. Ultimately, the FIOP effort will lead to the underpinnings of Network Centric Operational Warfare. The FIOP program focus includes the following areas:										
Joint Blue Force Situational Awareness (JBFSa)										
Situational Awareness Data Interoperability (SADI)										
Tactical Data Link Integration										
Precision Fires Support										
Network Based Services										
Web Enabled Execution Management										
Red Force Situational Awareness Picture										
Ground Moving Target Indicators (GMTI)										
Meterology Oceanography (METOC)										
Targeting Interoperability										
The air portion of the Common Tactical Picture (CTP), the Single Integrated Air Picture (SIAP), consists of common, continual and unambiguous tracks of airborne objects of interest in the surveillance area. SIAP is derived from real time and near real time data and consists of correlated air object tracks and associated information. SIAP systems integration efforts include, but are not limited to: defining the SIAP Platform Independent Model (PIM) functionality, the required SIAP architecture, and the integration methodology for AF C2 weapons systems.										
These activities are in Budget Activity 5 (System Development and Demonstration) because they support development, integration solutions, fielding, operational										
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## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

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support activities, and special projects.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	28.880	0.000	0.000	0.000
(U) Current PBR/President's Budget	35.067	0.000	0.000	0.000
(U) Total Adjustments	6.187			
(U) Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases	7.000			
Reprogrammings				
SBIR/STTR Transfer	-0.813			

(U) **Significant Program Changes:**

In FY06, Project 5137, Family of Interoperable Operational Pictures (FIOP) was terminated by an OSD budget decision. OSD directed the Under Secretary of Defense (AT&L) with the Chairman of the Joint Chiefs of Staff to leverage the Single Integrated Air Picture (SIAP) systems engineering process and the Joint Capabilities Integration and Development System (JCIDS) process to determine and implement the Common Operational Picture (COP) standard to inform the next development milestone for the Joint Command and Control program of record. Project #655187, Single Integrated Air Picture (SIAP) FY07 funding was transferred to PE 0207451F. In FY06 funds were increased to support required systems engineering work.

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Exhibit R-2a, RDT&E Project Justification									DATE <b>February 2007</b>	
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>					PE NUMBER AND TITLE <b>0207443F FAMILY OF INTEROP OPERATIONAL PIC (FIOP)</b>			PROJECT NUMBER AND TITLE <b>5187 Single Integrated Air Picture (SIAP)</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5187 Single Integrated Air Picture (SIAP)	35.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

Project 5187, Single Integrated Air Picture (SIAP) FY07 funding was transferred to PE 0207451F.

**(U) A. Mission Description and Budget Item Justification**

The Family of Interoperable Operational Pictures (FIOP) is a program designed to implement web-based technologies into Systems of Record, making their data, and thus the Common Operational and Tactical Pictures, consistent throughout the Services and at all echelons of Combat Operations. The Joint Requirements Oversight Council (JROC) directed the FIOP program to "...provide an all-source picture of the Battlespace containing actionable, decision quality information through the fusion of existing databases" in JROC Memorandum 156-02. Ultimately, the FIOP effort will lead to the underpinnings of Network Centric Operational Warfare. The FIOP program focus includes the following areas:

- Joint Blue Force Situational Awareness (JBFSa)
- Situational Awareness Data Interoperability (SADI)
- Tactical Data Link Integration
- Precision Fires Support
- Network Based Services
- Web Enabled Execution Management
- Red Force Situational Awareness Picture
- Ground Moving Target Indicators (GMTI)
- Meteorology Oceanography (METOC)
- Targeting Interoperability

The air portion of the Common Tactical Picture (CTP), the Single Integrated Air Picture (SIAP), consists of common, continual and unambiguous tracks of airborne objects of interest in the surveillance area. SIAP is derived from real time and near real time data and consists of correlated air object tracks and associated information. SIAP systems integration efforts include, but are not limited to: defining the SIAP Platform Independent Model (PIM) functionality, the required SIAP architecture, and the integration methodology for AF C2 weapons systems.

These activities are in Budget Activity 5 (System Development and Demonstration) because they support development, integration solutions, fielding, operational support activities, and special projects.

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## Exhibit R-2a, RDT&amp;E Project Justification

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## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

## PE NUMBER AND TITLE

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OPERATIONAL PIC (FIOP)

## PROJECT NUMBER AND TITLE

5187 Single Integrated Air Picture  
(SIAP)(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) BLOCK 0	6.200			
(U) MDA Integrating and Implementation	28.867			
(U) Total Cost	35.067	0.000	0.000	0.000

(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2006</u> <u>Actual</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) RDT&E										
(U) 0207434F Link 16 Support & Sustainment	10.800	0.000	0.000	0.000	0.000	0.000			Continuing	TBD

(U) **D. Acquisition Strategy**

The Air Force SIAP Program Office (SPO) provides for common development and integration across multiple Air Force platforms via existing contract mechanisms.

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Exhibit R-3, RDT&E Project Cost Analysis												DATE			
												February 2007			
BUDGET ACTIVITY						PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)						0207443F FAMILY OF INTEROP OPERATIONAL PIC (FIOP)						5187 Single Integrated Air Picture (SIAP)			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2006 Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
(U) Product Development															
AWACS Block 30/35 Block 0 Corr/Decorr	CPIF	Boeing Seattle, WA		6.200	Nov-05								6.200		
Integration Resource Center	CPFF	Alphatech Burlington, MA		3.500	Nov-05							0.000	3.500		
MDA Integration and Implementation	CPIF	Thales-Raytheon Systems, Fullerton CA		20.367	Nov-05							0.000	20.367		
Subtotal Product Development			0.000	30.067		0.000		0.000		0.000		0.000	30.067	0.000	
Remarks:															
(U) Support															
ESC	C/FFP	Titan Corp, Odyssey Consulting Group, BTAS, Inc, MITRE		5.000	Oct-05							0.000	5.000		
Subtotal Support			0.000	5.000		0.000		0.000		0.000		0.000	5.000	0.000	
Remarks:															
(U) Test & Evaluation															
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:															
(U) Management															
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:															
(U)															
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:															
(U) Total Cost			0.000	35.067		0.000		0.000		0.000		0.000	35.067	0.000	
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Exhibit R-3 (PE 0207443F)

## Exhibit R-4, RDT&amp;E Schedule Profile

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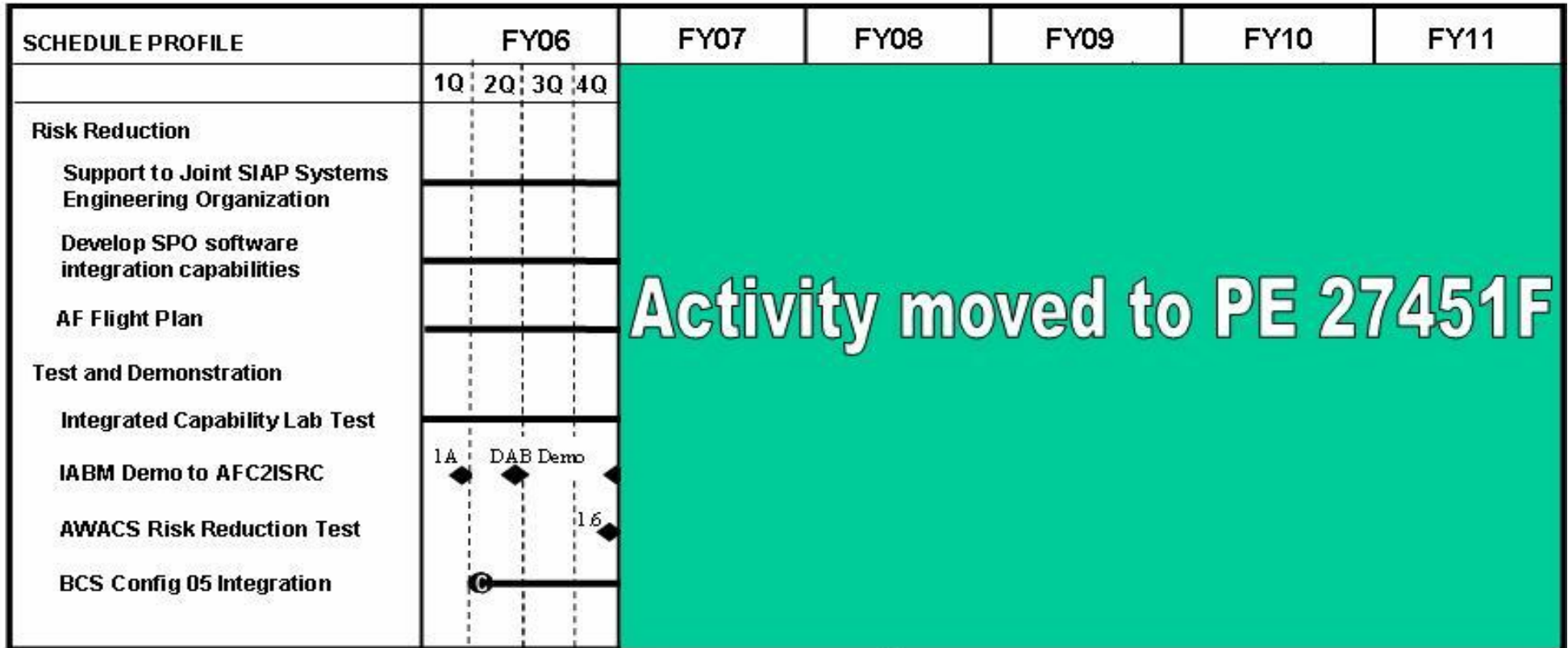
## BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

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## PROJECT NUMBER AND TITLE

5187 Single Integrated Air Picture  
(SIAP)**Legend**

Contract Award ● Development — End Date ◆

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## Exhibit R-4a, RDT&amp;E Schedule Detail

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207443F FAMILY OF INTEROP  
OPERATIONAL PIC (FIOP)

PROJECT NUMBER AND TITLE

5187 Single Integrated Air Picture  
(SIAP)(U) Schedule ProfileFY 2006FY 2007FY 2008FY 2009

(U) Support to Joint SIAP Systems Engineering Support Office

1-4Q

(U) Develop SPO software integration capabilities

1-4Q

(U) AF SIAP Flight Plan

1-4Q

(U) Integrated Capability Lab Test

1-4Q

(U) E-10/SIAP Prototype Lab Demo

1-3Q

(U) AWACS Risk Reduction Test

1-4Q

(U) BCS Config 05 Integration

1-3Q

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